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- 1. Method for the removal of protozoa from water comprising the step of contacting the water with an aluminium based medium which contains surface Al-OM groups for a time and under conditions such that a proportion of the protozoa present in the water are adsorbed onto said medium and removed from the water.
- 2. Method according to claim 1 wherein the aluminium based medium is alumina  $(Al_2O_3)$ .
- 3. Method according to claim 1 or 2 wherein the surface density of Al-OH groups occurs at an average rate of greater than about 1 hydroxyl group per 10 nm<sup>2</sup> of surface area.
  - 4. Method according to claim 3 wherein the surface density of Al-OH groups occurs at an average rate of greater than about 1 hydroxyl group per 2 nm², preferably greater than about 1 hydroxyl group per nm².
- 5. Method according to claim 4 wherein the surface density of Al-OH groups occurs at an average rate of about 1 hydroxyl group per 0.25 nm<sup>2</sup> to about 1 hydroxyl group per 0.18 nm<sup>2</sup>.
  - 6. A method according to claim 1 or 2 wherein the protozoa is one or more selected from *Cryptos poridium* and *Giardia*.
- 7. Method according to claim 6 wherein the biological species is Cryptosporidium.
  - 8. Method according to claim 2 where the alumina is in particulate form.
  - 9. Method according to claim 8 where the particulate alumina has a diameter in the range of about 15 mm to about 0.05 mm.
- 25 10. Method according to claim 9 wherein the particulate alumina has a diameter in the range of 1.5 mm to about 0.05 mm.
  - 11. Method according to claim 1 or 2 where the water is intended for human contact.
  - 12. Method agooding to claim 11 where the water is intended for human consumption.
  - 13. Method according to claim 11 where the water is intended for use in swimming pools or spa pools.
  - Use of an aluminium based medium which contains surface Al-OH groups in the removal of protozoa from water.
- 15. Use according to claim 14 wherein the aluminium based medium is alumina  $(Al_2O_3)$ .

- 16. Use according to claim 14 or 15 wherein the surface density of Al-OH groups occurs at an average rate of greater than about 1 hydroxyl group per 10 nm<sup>2</sup> of surface area.
- 17. Use according to claim 16 wherein the surface density of Al-OH groups occurs at an average rate of greater than about 1 hydroxyl group per 2 nm², preferably greater than about 1 hydroxyl group per nm².
  - 18. Use according to claim 17 wherein the surface density of Al-OH groups occurs at an average rate of about 1 hydroxyl group per 0.25 nm<sup>2</sup> to about 1 hydroxyl group per 0.18 nm<sup>2</sup>.
- 19. Use according to claim 14 or 15 wherein the protozoa is one or more selected from Cryptosporidium and Giardia.
  - 20. Use according to claim 19 wherein the biological species is Cryptosporidium.
  - 21. Use according to claim 15 where the alumina is in particulate form.
- 15 22. Use according to claim 21 where the particulate alumina has a diameter in the range of about 15 mm to about 0.05 mm.
  - 23. Use according to claim 22 wherein the particulate alumina has a diameter in the range of 3 mm to about 0.05 mm.
  - 24. Use according to claim 14 or 15 where the water is intended for human contact.
  - 25. Use according to claim 24 where the water is intended for human consumption.
  - 26. Use according to claim 24 where the water is intended for use in swimming pools or spa pools.

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